

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 July 2009 (09.07.2009)

PCT

(10) International Publication Number
WO 2009/085188 A1

(51) International Patent Classification:

C23C 10/58 (2006.01) **C25D 13/02** (2006.01)
C23C 10/02 (2006.01)

(21) International Application Number:

PCT/US2008/013853

(22) International Filing Date:

18 December 2008 (18.12.2008)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/963,249 21 December 2007 (21.12.2007) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHODS OF DEPOSITING COATINGS WITH Y-NI + Y'Ni₃Al PHASE CONSTITUTION

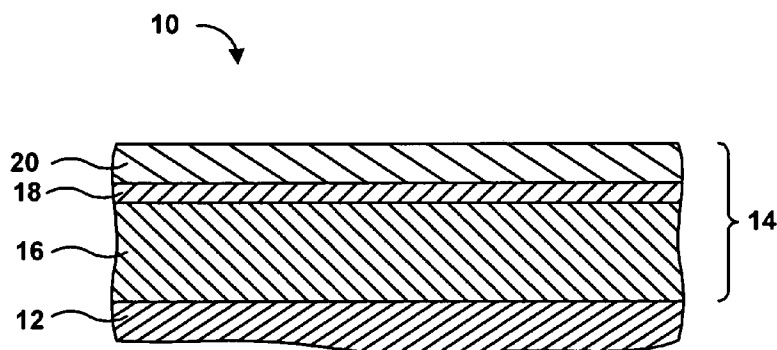


FIG. 1

(57) Abstract: A method including depositing a powder on a substrate to form a first layer thereon, wherein the layer includes a Pt group metal, Si and reactive element selected from the group consisting of Hf, Y, La, Ce, Zr, and combinations thereof. Deposited on the first layer is a second layer including Al to form a coating with a γ -Ni + γ' -Ni₃Al phase constitution. In preferred embodiments, the second layer is deposited with an organo halocarbon activator.

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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*